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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/773,050	01/31/2001	Nam-Ho Lee	4081-000002	6033
7590	12/08/2003		EXAMINER	
Harness, Dickey & Pierce, P.L.C. P.O. Box 828 Bloomfield Hills, MI 48303			SNIDER, THERESA T	
			ART UNIT	PAPER NUMBER
			1744	6
DATE MAILED: 12/08/2003				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/773,050	LEE ET AL.
	Examiner	Art Unit
	Theresa T. Snider	1744

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 31 January 2001.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-16 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-16 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 31 January 2001 is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. ____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

a) The translation of the foreign language provisional application has been received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). _____ .
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4. 6) Other: _____ .

DETAILED ACTION

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 40(page 10) and 54(page 11), 106(page 13), 200a(page 23, line 2), 624(page 31). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "76" has been used to designate both lock(page 12) and first stopper(page 12). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because: reference characters "108"(page 13) and "208"(page 14) have both been used to designate 'second filter'; reference characters "624"(page 31) and "124"(page 32) have both been used to designate 'outlet'.
A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

4. The disclosure is objected to because of the following informalities:

Exemplary of such:

Page 8, line 13, a reference numeral should be inserted after 'filtering means';

Lines 15-23 should be deleted because they are repetitive of the brief description of the drawings.

Page 9, line 10, a reference numeral should be inserted after 'partitions'.

Page 11, figure 4 does not have '60', as disclosed.

Page 12, figure 4 does not have '76' and '78', as disclosed.

Page 14, the descriptions of figures 6 and 7 should be deleted because it is repetitive of the brief description of the drawings.

Page 17, lines 1-6 should be deleted because they are repetitive of the brief description of the drawings;

Line 9, a reference numeral should be inserted after 'stopper means'.

Page 21, the descriptions of figures 11 and 12-13 should be deleted because it is repetitive of the brief description of the drawings.

Page 22, line 6, 'a'(second occurrence) should be replaced with 'an'.

4 lines up from the bottom, 'a' should be replaced with 'the'.

Page 25, lines 2-6 should be deleted because they are repetitive of the brief description of the drawings.

Page 26, the descriptions of figures 16-17 should be deleted because it is repetitive of the brief description of the drawings.

Page 29, the descriptions of figures 18-19 should be deleted because it is repetitive of the brief description of the drawings.

Page 30, line 5, it is unclear as to what is meant by 'stpppor'.

Page 31, the descriptions of figures 20-21 should be deleted because it is repetitive of the brief description of the drawings.

Page 32, the descriptions of figures 22 and 23 should be deleted because it is repetitive of the brief description of the drawings.

Page 33, the descriptions of figure 24 should be deleted because it is repetitive of the brief description of the drawings.

Page 34, the descriptions of figure 25 should be deleted because it is repetitive of the brief description of the drawings.

Page 34, 'a terminal' should be replaced with 'the terminal'.

Page 35, lines 4-5 should be deleted because they are repetitive of the brief description of the drawings.

Page 36, lines 3-4, should be deleted because they are repetitive of the brief description of the drawings.

Page 47, line 1, 'improved' should be deleted.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Exemplary of such:

Claim 1, line 2, 'for sucking' what therein?

Line 5, it is unclear as to what is meant by 'provided successively by partitions';

Line 7, it is unclear as to where the socket is located with respect to the other previously recited elements, particularly the suction opening;

Line 7, it is unclear as to what is meant by 'adapted to';

Line 10, it is unclear as to what constitutes a first 'cleaner';

Line 13, it is unclear as to how both the first and second cleaner can be connected to the connecting opening;

Line 20, it is unclear as to what is meant by 'adapted to'.

Claims 2-16, line 1, 'A' should be replaced with 'The'.

Claim 2, line 2, it is unclear as to what is meant by 'depressed toward';

Line 3, it is unclear as to whether the 'a exhaust grill' is in addition to that of claim 1, line 3 or one in the same;

Line 4, 'the side' lacks proper antecedent basis.

Claim 3, lines 3 and 6, 'the' should be replaced with 'an'.

Claim 4, lines 3-4, it is unclear as to what is meant by 'for guiding a rotatory motion';

Line 4, 'the front plane' is not a structural feature of the protrusion;

Line 12, it is unclear as to what is meant by 'which is exposed'.

Claim 5, line 3, it is unclear as to what is meant by 'and moving by wheels';

Lines 5-6, it is unclear as to what is meant by 'in a vertical manner';

Line 7, it is unclear as to what is meant by 'in a horizontal manner'.

Claim 6, line 3, it is unclear as to what is meant by 'which is exposed';

Line 6, 'the'(first occurrence) should be replaced with 'the';

Line 7, it is unclear as to what is meant by 'to appear';

Line 8, 'the main push button' lacks proper antecedent basis.

Claim 7, line 8, it is unclear as to what constitutes 'thin'.

Claim 9, line 2, it is unclear as to what is meant by 'a torn portion'.

Claim 10, line 8, it is unclear as to what is meant by 'respect'.

Claim 11, lines 3-4, it is unclear as to what is meant by 'controlling operation of the vacuum cleaner fro controlling an operation of the terminal box'.

Claim 12, line 9, it is unclear as to what is meant by 'for cutting off the exhaust grill'.

Claim 14, line 6, it is unclear as to what is meant by 'area depressed toward'.

Claim 16, line 2, it is unclear as to which element the 'predetermined position' is located.

Allowable Subject Matter

7. Claim 1 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

8. Claims 2-16 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Art Unit: 1744

9. The following is a statement of reasons for the indication of allowable subject matter:
The prior art discloses a vacuum cleaner with a main body having a suction opening, exhaust grill, dust collecting chamber and driving chamber with a motor assembly located therein, a socket adapted to the lower end of the main body and having a connecting opening communicating with the dust collecting chamber, a first and a second cleaner detachably connected to the connecting opening and a handle adapted to the upper end of the main body
HOWEVER fails to disclose or fairly suggest the second cleaner installed hingedly on a portion of the socket and connected detachably to the connecting opening of the socket.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hoover and Dennis disclose vacuum cleaners with a first cleaner attached to a socket and a second cleaner connected to the first cleaner. Belicka et al., McMahan and Sharp disclose vacuum cleaners with a first and second cleaner attached to a socket on a main body. Shideler discloses a versatile vacuum cleaner.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Theresa T. Snider whose telephone number is (703) 305-0554. The examiner can normally be reached on Monday-Wednesday-Friday (6:30AM-3:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Warden can be reached on (703) 308-2920. The fax phone number for the organization where this application or proceeding is assigned is (703) 879-9310.

Art Unit: 1744

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Theresa T. Snider
Primary Examiner
Art Unit 1744

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12/1/03